

Form Approved
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@ EPA-OTS

90-890000637

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

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Docket Number:

EPA Form 7710-52

PART	A	GENERAL REPORTING INFORMATION
1.01	Th	is Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
СВІ	co	mpleted in response to the <u>Federal Register Notice of $[\underline{I}, \underline{J}, \underline{J}$</u>
[_]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[2]6]4]7]1]-[6]2]-[5]$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal Register</u> .
		(i) Chemical name as listed in the rule
		(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule Uralite 3124 part A
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
		Name of category as listed in the rule
		CAS No. of chemical substance [_]_]_]_]_]_]_]_]_]_]_]-[_]
		Name of chemical substance
1.02	Id	entify your reporting status under CAIR by circling the appropriate response(s).
CBI	Ma	nufacturer 1
[_]	Iπ	porter 2
	Pr	ocessor
	X/	P manufacturer reporting for customer who is a processor
	X/	P processor reporting for customer who is a processor

1.03 CBI	Does the substance you are reporting on have an "x/p" designation associated with in the above-listed <u>Federal</u> <u>Register</u> Notice?						
	Yes	s	n 1.04				
LJ	No	[] Go to question	n 1.05				
1.04 CBI	a.	Do you manufacture, import, or process the listed substance and distribute under a trade name(s) different than that listed in the Federal Register Not Circle the appropriate response. Yes	tice?				
[_]		No	(2				
	b.	Check the appropriate box below:					
		[] You have chosen to notify your customers of their reporting obligation	ıs				
		Provide the trade name(s)					
Λ	A						
		[] You have chosen to report for your customers					
		You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.	⁄e				
1.05 CBI	rep	you buy a trade name product and are reporting because you were notified of your trade name supplier, provide that trade name. Ide name	our				
[_]		the trade name product a mixture? Circle the appropriate response.					
		· · · · · · · · · · · · · · · · · · ·	(1				
		•••••••••••••••••••••••••••••••••••••••	_				
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:						
<u>CBI</u> [<u> </u>]	ente	hereby certify that, to the best of my knowledge and belief, all information ered on this form is complete and accurate."					
	7	Scott E. Scrupski lant land 9-8-8 NAME SIGNATURE DATE SIGN	र ED				
		ant Engineer - Environmental (407) 268 - 7141 TITLE TELEPHONE NO.					
	ark	(X) this box if you attach a continuation sheet.					

1.07 <u>CBI</u> []	with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You						
N/A	"I hereby certify that, to information which I have not to EPA within the past 3 year period specified in the rule	t included ars and is	in this CAIR Reporting	; Form has been submitted			
	NAME		SIGNATURE	DATE SIGNED			
		,					
	TITLE	(TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION			
<u>CBI</u> [<u></u>] N/A	"My company has taken measur and it will continue to take been, reasonably ascertainab using legitimate means (othe a judicial or quasi-judicial information is not publicly would cause substantial harm	res to prote these meaning the by other than distribution available	eect the confidentialit asures; the information or persons (other than scovery based on a show ag) without my company' elsewhere; and disclos	is not, and has not government bodies) by ing of special need in s consent; the ure of the information			
	NAME		SIGNATURE	DATE SIGNED			
	TITLE	(TELEPHONE NO.				

PART	B CORPORATE DATA
1.09	Facility Identification
<u>CBI</u>	Name [M]C]D]O]N]N]E]L]L]]D]O]U]G]L]A]S]]M]S]C]-]F]M]P]
[_]	Address [7]0][] [C]0]L]u]M]B]; [A]]B]0]u]L]E]V]A]R]D]]] Street
	[丁]工]丁]以]S]V][][[[[]][]]]]]]]]]]]]]]]]]]]]]]]]
	$\begin{bmatrix} \overline{F} \end{bmatrix} \overline{L} $ $\begin{bmatrix} \overline{3} \end{bmatrix} \overline{2} \overline{17} \overline{8} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} \overline{0} 0$
	Dun & Bradstreet Number
	EPA ID Number
	Employer ID Number
	Primary Standard Industrial Classification (SIC) Code $[3]7]\overline{6}$
	Other SIC Code
	Other SIC Code
1.10	Company Headquarters Identification
<u>CBI</u>	Name $[\underline{M}]\underline{C}]\underline{D}]\underline{o}[\underline{n}]\underline{n}]\underline{E}[\underline{L}]\underline{L}]\underline{D}[\underline{o}]\underline{u}]\underline{b}[\underline{L}]\underline{A}]\underline{S}[\underline{D}]\underline{o}[\underline{R}]\underline{P}]\underline{D}]\underline{D}[\underline{o}]\underline{u}]\underline{b}[\underline{L}]\underline{A}]\underline{S}[\underline{D}]\underline{O}[\underline{R}]\underline{P}]\underline{D}[\underline{D}]\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[\underline{D}]\underline{D}[D$
[_]	Address [P]O]]]]]O]X]]]5][][]]]]]]]]]]]]]]]]]]]]]]
	(<u>5</u>] <u>T</u>] <u> </u>
	[M]O] [6]3]1]6]6][]]]]
	Dun & Bradstreet Number $\dots [\underline{o}]\underline{o}]-[\underline{c}]\underline{\lambda}]\underline{c}]-[\underline{5}]\underline{q}]\underline{u}]\underline{c}]$
	Employer ID Number

1.11	Parent Company Identification
<u>CBI</u>	Name [M]C]D]O]N]N]E]L]L]]D]O]U]L]A]S]]C]O]R]P]]]]]]Address [P]O]]B]O]X]]JS][]B]O]X]]]S][]D]O]U]L]A]J]]]]]]]]]]]]]
	[S]T]_][][][][][]]]]]]]]]]]]]]]]]]]]]]]]
	[M]O] [6]3]1]6]-[]]]]]] State Zip
	Dun & Bradstreet Number $\dots [\overline{0}]\overline{0} - [\overline{6}]\overline{2}\overline{0} - [\overline{5}]\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}\overline{9}$
1.12	Technical Contact McDonnELL Douglas MSC-FMP
CBI	Name $[S]C]O]+]+]-]S]C]R]U]P]S]K][]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]$
[_]	Title $[P]UA[n]T][E[n]G[T]A[E]E[R][E[N]V[T]R][T][T][T]$
	Address [7]0]1]101014141811415121415121
	[T]]T]U]S]U]T]L]L]E]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]
	$ \begin{bmatrix} \overline{F} \end{bmatrix} \underline{L} \qquad \begin{bmatrix} \overline{J} \end{bmatrix} \underline{J}] \underline{J}] \underline{J}] \underline{J}] - [\underline{L}] \underline{L}] \underline{L}] $ State
	Telephone Number $[\underline{4}]\underline{0}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}7$
1.13	This reporting year is from $[\underline{\overline{C}}] \underline{\overline{I}}$ $[\underline{\overline{K}}] \underline{\overline{K}}$ to $[\underline{\overline{I}}] \underline{\overline{Z}}$ $[\underline{\overline{K}}] \underline{\overline{X}}$ Mo. Year Mo. Year
[_] 1	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the provide the following information about the seller:	ne reporting year,
<u>CBI</u>	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]	
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_] Street	
N/A	A [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]	
	[]]	
	Employer ID Number[
	Date of Sale	·[_]_] [_]_] [_]_ Mo. Day Year
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]	
	Telephone Number	[_]_]_]-[_]]_]_
1.15	Facility Sold If you sold this facility during the reporti following information about the buyer:	ng year, provide the
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]	
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]	
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]	
N/A	(]]]]][]]]
	Employer ID Number[
	Date of Purchase	·[_]_] [_]_] [_]] Mo. Day Year
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]	
	Telephone Number	[_]_]_]-[_]]]]
[<u></u>]	Mark (X) this box if you attach a continuation sheet.	

For each classification listed below, state the quantity of the lister was manufactured, imported, or processed at your facility during the	ed substance that reporting year.
Classification	Quantity (kg/yr)
Manufactured	• •
Imported	• •
Processed (include quantity repackaged)	38.48
Of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	• •
For on-site use or processing	• •
For direct commercial distribution (including export)	• •
In storage at the end of the reporting year	• •
Of that quantity processed, report that quantity:	_
In storage at the beginning of the reporting year	<u>6.375</u>
Processed as a reactant (chemical producer)	• •
Processed as a formulation component (mixture producer)	• •
Processed as an article component (article producer)	38,48
In storage at the end of the reporting year	. 6.375
	was manufactured, imported, or processed at your facility during the Classification Manufactured

1.17 CBI	Mixture If the listed substance or a component of a mixture, provechemical. (If the mixture compose each component chemical for all for	ide the following informa ition is variable, report	tion for each component
[_]	Component Name	Supplier Name	Average % Composition by Weight (specify precision, e.g., 45% ± 0.5%)
	Polyester Polyol	HEXCELL Corp.	90%±5%
,	* Benzene 2,4-diisocyanato-l-Methyl Gs#584-84-9 * Bennene 1,3-diisocyanato-2-Methyl		10%±5%
	Cas # 91-08-7		Total 100%

* This Combi	ination is	being A	2eported	as Cas#	26471-	62-5	in this	
Report.								
[] Mark (X) this	box if you a	attach a	continua	tion sheet.				
			10					

2.04	State the quantity of the listed substance that your facility mar or processed during the 3 corporate fiscal years preceding the redescending order.	ufactured, imp porting year i	orted, n
<u>CBI</u>			
[_]	Year ending	[<u> </u>] <u>2</u>] [<u></u> 8 1 <u>7</u> 1 Year
	Quantity manufactured	N/A	kg
	Quantity imported		
	Quantity processed	28.38	kg
	Year ending	[<u>]]]</u> [₹1 <u>6</u> 1 Year
	Quantity manufactured	N/A	kg
	Quantity imported		
	Quantity processed	21.03	kg
	Year ending	[<u>T]Z</u>] [] Mo.	g J <u>5</u> J Year
	Quantity manufactured	N /A	kg
	Quantity imported		
	Quantity processed	1.9	kg
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
[_]			
	Continuous process		
N/A	Semicontinuous process		
	Batch process	••••••	3
		1	
1	Mark (X) this box if you attach a continuation sheet.		

2.06 CBI	Specify the manner in appropriate process ty	which you processed pes.	the listed substance.	Circle all
[_]	Continuous process	••••••	• • • • • • • • • • • • • • • • • • • •	
	Semicontinuous process			
	Batch process			_
2.07 <u>CBI</u>	State your facility's substance. (If you ar question.)	name-plate capacity is a batch manufacture	for manufacturing or per or batch processor,	rocessing the listed do not answer this
·	Manufacturing capacity	• • • • • • • • • • • • • • • • • • • •		kg/yr
	Processing capacity .	•••••••••••••••••		kg/yr
2.08 CBI	If you intend to increamanufactured, imported year, estimate the increase volume.	, or processed at anv	' time after vour curr	ent corporate fiscal
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)
	Amount of increase			51.318/40
	Amount of decrease			
				•
			·	
_]	Mark (X) this box if you	u attach a continuati	on sheet.	

2.09	listed substanc substance durin	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	l the listed lours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		
		Processed	<u>24</u>	< 1
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured		
		Processed		
2.10 <u>CBI</u> []		um daily inventory and average monthly inventory was stored on-site during the reporting year in		
	Maximum daily in	nventory		kg
	Average monthly	inventory		kg
[_]	Mark (X) this bo	ox if you attach a continuation sheet.		

J			Byproduct, Coproduct	Concentration (%) (specify ±	Source of By- products, Co- products, or
	CAS No.	Chemical Name	or Impurity ¹	% precision)	Impurities
	007-631-869	Si 02		10%	Thixotrupic Ac
		AROMATIC MERCURY		1.13%	Part Box Urali
		AIKYL ESTER	C	21.41	Part Bot Wel
					

2.12 <u>CBI</u>	imported, or processed using the listed substance during the reporting year the quantity of listed substance you use for each product type as a percent total volume of listed substance used during the reporting year. Also list				
	a. Product Types ¹ K	b. % of Quantity Manufactured, Imported, or Processed	c. % of Quantity Used Captively On-Site	d. Type of End-Users ²	
	<pre>"Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/A</pre>	ccelerator/ //Scavenger/ equestrant legreaser lodifier/Antiwear	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluids V = Metal alloy and a W = Rheological modifi	n/Plating chemicals ditives als and additives chemicals chemicals s and additives additives	
	² Use the following codes I = Industrial CM = Commercial	CS = Cons		ary, Gwernment	

2.13 <u>CBI</u> []	Expected Product Types import, or process usi corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an exa	ng the listed substa For each use, spece each use as a perce the reporting year. as a percentage of each product type.	nce at any time after ify the quantity you ontage of the total volumes also list the quantithe value listed under	your current expect to manufacture lume of listed ty of listed substanc r column b., and the
	a.	b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	K		O	H
	**IUse the following codes to designate product types: A = Solvent			
	<pre>I = Industrial CM = Commercial</pre>	CS = Cons H = Othe	umer r (specify) <u>Milit</u>	Government
[_]	Mark (X) this box if y	ou attach a continua	tion sheet.	

a.	b.	C.	d.		
		Average % Composition of			
1	Final Product's	Listed Substance	Type of ,		
Product Type ¹	Physical Form ²	in Final Product	End-Users ³		
X	<u> </u>	<.01	<u>H</u>		
	codes to designate pro		- /Dubb 112		
A = Solvent B = Synthetic reac	tant	L = Moldable/Castabl M = Plasticizer	le/Kubber and addi		
C = Catalyst/Initi		N = Dye/Pigment/Colo			
Sensitizer	•••	<pre>0 = Photographic/Rep</pre>			
D = Inhibitor/Stab Antioxidant	ilizer/Scavenger/	and additives	/D] - +		
E = Analytical rea	gen t	P = Electrodeposition Q = Fuel and fuel ad			
F = Chelator/Coagu		R = Explosive chemic			
G = Cleanser/Deter		S = Fragrance/Flavor			
	tion modifier/Antiwear				
agent I = Surfactant/Emu	laifian	U = Functional fluid			
J = Flame retardan		<pre>V = Metal alloy and W = Rheological modi</pre>			
		es X = Other (specify)	Cruise Missile		
² Use the following codes to designate the final product's physical form:					
A = Gas	•	stalline solid			
B = Liquid	F3 = Gra				
<pre>C = Aqueous solutio D = Paste</pre>	on r4 = Oth G = Gel	er solid			
E = Slurry F1 = Powder		er (specify)			
	codes to designate the				
<pre>I = Industrial CM = Commercial</pre>	CS = Con H = Oth	sumer er (specify) <u>Militari</u>	, Government		

2.15 CBI	Circ	le all applicable modes of transportation used to deliver bulk shipments of ed substance to off-site customers.	the
[_]	Truc	k	1
	Rail	car	. 2
N/A	Barge	e, Vessel	3
711	Pipe:	line	. 4
	Plane	e	. 5
	Other	c (specify)	. 6
2.16 CBI	or p	omer Use Estimate the quantity of the listed substance used by your custo repared by your customers during the reporting year for use under each categ and use listed (i-iv).	mers
[_]	Cate	gory of End Use	
	i.	Industrial Products	
		Chemical or mixture	kg/yr
		Article	
	ii.	Commercial Products	
		Chemical or mixture	kg/yr
N/A		Article	kg/yr
	iii.	Consumer Products	
		Chemical or mixture	kg/yr
		Article	kg/yr
	iv.	<u>Other</u>	
		Distribution (excluding export)	kg/yr
		Export	kg/yr
		Quantity of substance consumed as reactant	kg/yr
		Unknown customer uses	kg/yr
	·	(X) this box if you attach a continuation sheet.	

SECTION	3	PROCESSOR	RAW	MATERTAL.	IDENTIFICATION
		TYOURDOOM	T/CZ W	HUTTHIAL	TREMITTERSHIM

PART	A GENERAL DATA		
3.01 CBI [_]	Specify the quantity purchased and the average price for each major source of supply listed. Product trade The average price is the market value of the product substance.	les are treated as	purchases.
·,	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.	38.48	6.89
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.		
3.02 CBI	Circle all applicable modes of transportation used to your facility. Truck Railcar Barge, Vessel Pipeline Other (specify)		
	Mark (X) this box if you attach a continuation sheet.		
	21		

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to your facility.
[_]		Bags 1
		Boxes 2
		Free standing tank cylinders 3
		Tank rail cars 4
		Hopper cars 5
		Tank trucks 6
		Hopper trucks 7
		Drums 8
		Pipeline 9
		Other (specify) 1 6 (an
	b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
		Tank cylinders
		Tank rail cars
		Tank trucks M/A mmHg
[_]	Marl	k (X) this box if you attach a continuation sheet.

3.04 CBI []	of the mixture, the name	e of its supplier(s) tion by weight of the	orm of a mixture, list the or manufacturer(s), an est e listed substance in the meting year.	imate of the
l J	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)
	URALITE 3124 PTA	Hexcell Corp.	5-15% *	35.48
* T~	ace Secret			

3.05 CBI []	State the quantity of the li- reporting year in the form o the percent composition, by	f a class I chemical, clas	ss II chemical, or polymer, and
	Class I chemical	Quantity Used (kg/yr)	% Composition by Weight of Listed Substance in Raw Material (specify ± % precision
	Class II chemical		
	Polymer		

	4						
	SEC	TION 4 PHYSICAL/CHE	MICAL PROPERTIES				
Gener	al Instructions:						
If you	u are reporting on a mix t are inappropriate to m	ture as defined in t ixtures by stating "	he glossary, reply to que NA mixture."	estions in Section			
notic	uestions 4.06-4.15, if yee that addresses the infemile in lieu of answering	ormation requested,	d warning statement, labe you may submit a copy or ich it addresses.	el, MSDS, or other reasonable			
PART	A PHYSICAL/CHEMICAL DATA	A SUMMARY					
4.01 <u>CBI</u>	substance as it is manu substance in the final	factured, imported, product form for man	jor ¹ technical grade(s) or processed. Measure thufacturing activities, as egin to process the subst	ne purity of the the time you			
[_]	NA-MIXTURE	Manufacture	Import	Process			
	Technical grade #1	% purity	% purity	% purity			
	Technical grade #2	% purity	% purity	% purity			
	Technical grade #3	% purity	% purity	% purity			
	¹ Major = Greatest quant	ity of listed substa	nce manufactured, importe	ed or processed.			
4.02	substance, and for every an MSDS that you develo	y formulation contained and an MSDS deve	Safety Data Sheet (MSDS) ning the listed substance loped by a different sour S has been submitted by o	e. If you possess cce, submit your			
	Yes						
	No 2						
	Indicate whether the MS	DS was developed by	your company or by a diff	erent source.			
	Your company			1			
	Another source			2			

Mark (X) this box if you attach a continuation sheet.



U.S. DEPARTMENT OF LABOR

WORKPLACE STANDARDS ADMINISTRATION
BUREAU OF LABOR STANDARDS

MATERIAL SAFETY DATA SHEET GILLY, OTHER USE OR DISCLOSURE TO THIRD PAR-

THE FROM PARTY PRODUCT TOWN PRINTED THE TOWN OF THE PRODUCT OF THE

THE MAY RESULT IN LEGAL ASSIGN ASSIGN THE

VICEMOR BY REAGEL CORPORATION.

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION EMERGENCY TELEPHONE NO. MANUFACTURER'S NEE. (212) 882-3022 N.K. Hankins HEXCEL CORPORATION - Chemical Products Division ADDRESS (NUMBER, SEEET, CITY, STATE AND ZIP CODE) 20701 Nordhoff Street - Chatsworth, CA. 91311 TRADE NAME AND SYNONYMS URALITE® 3124 Polyurethane Prepolymer and Hardener CHEMICAL FAMILY Polyol) and Polyol Hardener (Isocyanate and Polyol) and Polyol Hardener 100A/32B **Polyurethane SECTION II: HAZARDOUS INGREDIENTS*** TLV TLV (UNITS) (UNITS) In Part B In Part A 5-**<**5 Free Monomeric TDI 0.01 Aromatic Mercury (II) Unknown 5 Alkyl Ester SECTION III: PHYSICAL DATA 1.18 SPECIFIC GRAVITY (H20 = 1) Part A: > 460°F Part A: BOILING POINT (OF) 1.04 Part B: Part B: <u>Not available</u> < 0.01 mm Hg 750F PERCENT VOLATILE Part A: . . Nil VAPOR PRESSURE (milig.) <0.001mm Hg 75°F BY VOLUME-(%)-Part B: **EVAPORATION RATE** N/A VAPOR DENSITY (AME-1) Unknown Part A: Reactive SOLUBILITY IN WATE Slightly soluble Part B: Water white to light amber - sharp characteristic odor. Part A: APPEARANCE AND GIOR Part B: Light amber color - sweet odor SECTION IV: FIRE AND EXPLOSION HAZARD DATA

SPECIAL FIRE FIGHTIG PROCEDURES

EXTINGUISHING MEDIA

FLASH POINT (METHIDIUSED) Part A:

CO₂ or dry chemical for small fires. Water and foam for larger fires.

CEDURES

Vapors exceedingly irritating when inhaled. Self-contained breathing

FLAMMABLE LIMITS

Unknown

Vapors exceedingly irritating when inhaled.

Part B:

apparatus should be available to firemen.

UNUSUAL FIRE AND EPLOSION HAZARDS

None

*PLEASE DO NITUSE GENERALIZATIONS, SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES.

USE SPECIFICIBEMICAL NAMES. SUCH AS METHANOL, BENZENE, PERCHLOROETHYLENE.

3500F

275⁰F

SECTION V: HEALTH HAZARD DATA

TRESHOLD LIMIT VALUE

Part A: Not established.

Part B: Not established.

FECTS OF OVEREXPOSURE Part A: Vapors are exceedingly irritating to mucous membrane and eyes. Can ause acute temporary chest discomfort and breathing difficulty. Skin contact may cause sensitiza-

ion. Part B: May cause skin irritation. May produce delayed chemical burns. Ingestion may ause poisoning. MERGENCY AND FIRST AID PROCEDURES Skin contact: Prompt washing with 99% isopropyl alcohol followed

y washing with soap and water. Eye contact: Irrigate promptly with clean water for 15 minutes nd call a physician. Inhalation: Treat symptomatically; vaso-dilators, fresh air, oxygen. Call physician. Ingestion: Call a physician at once. Give milk or white of egg beaten with water.

hen give a tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear.

SECTION VI: REACTIVITY DATA CONDITIONS TO AVOID UNSTABLE Avoid heat TABILITY STABLE X

COMPATIBILITY (MATERIALS TO AVOID)

AZARDOUS DECOMPOSITION PRODUCTS

ASTE DISPOSAL METHOD

OTECTIVE GLOVES

CONDITIONS TO AVOID

MAY OCCUR Moisture contamination may form CO2 gas pressure. **AZARDOUS** DLYMERIZATION WILL NOT OCCUR

SECTION VII: SPILL OR LEAK PROCEDURES

EPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

entilate the area thoroughly. Spilled compound should be absorbed in sawdust or other absorbant. tore temporarily in an open container. Absorbed Part A should be treated with a solution of ater, ammonia and isopropanol before disposal,

ontrolled incineration or buried landfill. Waste disposal should be in accordance with federal,

tate and local environmental control regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION SPIRATORY PROTECTION (SPECIFY TYPE) If used in an enclosed area, use an air supplied mask or

espirator with cannister for organic vapors.

LOCAL EXHAUST If handled indoors, provide SPECIAL

NTILATION mechanical exhaust ventilation. MECHANICAL (GENERAL)

> **EYE PROTECTION** Safety glasses and face shield Rubber or neoprene

OTHER

HER PROTECTIVE EQUIPMENT Rubber or plastic aprons.

SECTION IX: SPECIAL PRECAUTIONS

ECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a cool, dry area in tightly closed containers.

HER PRECAUTIONS Avoid contact with skin or clothing. Contaminated clothing must be removed and <u>undered before wearing again. Contaminated shoes must be thoroughly cleaned or discarded.</u>

outeline PREPARED BY P.W. Cuthbert

October 29, 1980 DATE

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

		Phy	sical State		
Activity	Solid	Slurry	Liquid	Liquified Gas	Gas
Manufacture	1	2	3	4	5
Import	1	2	3	4	5
Process	1	2	(3)	4	5
Store	1	2	3	4	5
Dispose	1	2	3	4	5
Transport	1	2	3	4	5

[[]_] Mark (X) this box if you attach a continuation sheet.

4.05 <u>CBI</u>	Particle Size If the listed substance exists in particulate form during any of the following activities, indicate for each applicable physical state the size and the percentage distribution of the listed substance by activity. Do not include particles ≥10 microns in diameter. Measure the physical state and particle sizes for importing and processing activities at the time you import or begin to process the listed substance. Measure the physical state and particle sizes for manufacturing storage, disposal and transport activities using the final state of the product.							
LJ	Physical		NA - LIGHT	d				
	State		Manufacture	<u>Import</u>	Process	<u>Store</u>	Dispose	Transport
	Dust	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Powder	<pre><1 micron 1 to <5 microns</pre>		<u></u>			<u></u>	
		5 to <10 microns						
	Fiber	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Aerosol	<1 micron						
		1 to <5 microns						
		5 to <10 microns						
	Mark (X)	his box if you attac	ch a continuat	ion shee	et.			

1	Ind	dicate the rate constants for the following transformation processes.	
	a.	Photolysis:	
		Absorption spectrum coefficient (peak) unknewn (1/M cm) at	nm
		Reaction quantum yield, o unknown at	nm
		Direct photolysis rate constant, k_p , at $\underline{\text{control}}$ 1/hr la	titu
	b.	Oxidation constants at 25°C:	
		For 10_2 (singlet oxygen), k_{ox} <u>UNKNOWN</u>	1/1
		For RO ₂ (peroxy radical), k _{ox} <u>CANKACCOM</u>	1/M
	c.	Five-day biochemical oxygen demand, BOD ₅ <u>UNKNUWN</u>	mg/
	d.	Biotransformation rate constant:	
		For bacterial transformation in water, k <u>unknown</u>	1/1
		Specify culture ANKNOWN	
	e.	Hydrolysis rate constants:	
		For base-promoted process, k _B <u>UNKNOWN</u>	1/1
		For acid-promoted process, k, unknown	1/1
		For neutral process, k _N	1/h
	f.	Chemical reduction rate (specify conditions)	
	g.	Other (such as spontaneous degradation) UNKNOCON	

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

PART	В Р	PARTITION COEFFICIENTS					
5.02	a.	Specify the half-life of	fy the half-life of the listed substance in the following media.				
		<u>Media</u>		Half-life (speci	fy units)		
		Groundwater		UNKNOWN			
		Atmosphere		į.			
		Surface water					
		Soil		1			
	b.	Identify the listed subslife greater than 24 hou		s known transformation products that have a half-			
		CAS No.	Name	Half-life (specify units)	Med	<u>ia</u>	
		UNKNOWN		<u> </u>	in		
					in		
					in		
					in		
5.03		cify the octanol-water pa					

5.04	Spe	cify the soil-water parti	tion coefficient	, κ _d <u>unkn</u>	<u> 0 سا ۸</u>	at 25°	
	Soi	l type	•••••				
5.05		cify the organic carbon-w		UNKN	0 ti N	at 25°0	

[] Mark (X) this box if you attach a continuation sheet.

5.06 Specify the Henry's Law Constant, H UNKNOWN atm-m³/mole

5.07	List the bioconcentration	factor (BCF) of the	listed substance, the	species for which
	it was determined, and th	e type of test used	in deriving the BCF.	

Bioconcentration Factor	<u>Species</u>	<u>Test¹</u>	
UNKNOWN			
1			

according to Fran Lichtenberg, The Society of Plastics Industry will be sending the Data for section 5 directly to the EPA.

Fran Lichten berg Manager - Polyura thane Division Society of Plastics Industry (212) 351-5425

¹Use the following codes to designate the type of test:

F = Flowthrough

S = Static

^[] Mark (X) this box if you attach a continuation sheet.

	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
	Retail sales	NA	N/A
	Distribution Wholesalers		
	Distribution Retailers		
	Intra-company transfer		
	Repackagers		
	Mixture producers		
	Article producers		
	Other chemical manufacturers or processors		
	Exporters		
	Other (specify)		
.05	Substitutes List all known comm for the listed substance and state		es that you know exis
BI	feasible substitute is one which i in your current operation, and whi	s economically and technolo	e. A commercially gically feasible to u
<u>BI</u>	feasible substitute is one which i in your current operation, and whi performance in its end uses.	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable
<u>BI</u>]	feasible substitute is one which i in your current operation, and whi performance in its end uses. Substitute	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u
<u>BI</u>]	feasible substitute is one which i in your current operation, and whi performance in its end uses.	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable
<u>BI</u>	feasible substitute is one which i in your current operation, and whi performance in its end uses. Substitute	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable
<u>BI</u>	feasible substitute is one which i in your current operation, and whi performance in its end uses. Substitute	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable
<u>BI</u>]	feasible substitute is one which i in your current operation, and whi performance in its end uses. Substitute	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable
<u>BI</u>]	feasible substitute is one which i in your current operation, and whi performance in its end uses. Substitute	s economically and technolo ch results in a final produ	e. A commercially gically feasible to u ct with comparable

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

, 4

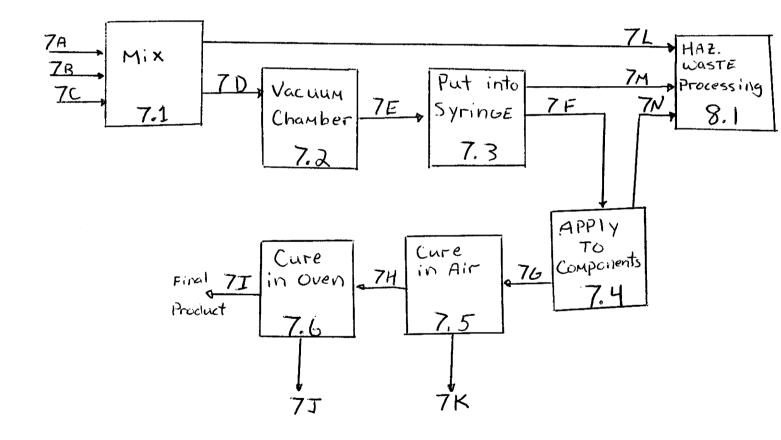
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type Princing electrical Components



Mark (X) this box if you attach a continuation sheet.

7.03	In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.
CBI	
[_]	Process type N.A.
	•
[_]	Mark (X) this box if you attach a continuation sheet.

7.04	process	block : proces	ypical equipment types flow diagram(s). If a ss type, photocopy thi	process block flo	ow diagram is provid	led for more
[_]	Process	type .	Bonding	Electrical (omponents	
	Unit Operation ID Number 7.1 7.2 7.3 7.4 7.5 7.6	on ————————————————————————————————————	Typical Equipment	Operating Temperature Range (°C) 25°C 25°C 25°C 25°C	Operating Pressure Range (mm Hg) Atmospheric 100 mm Hg Absolute Atmospheric Atmospheric Atmospheric Atmospheric	Vessel
			pox if you attach a co			

7.05	Describe each process stream identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.				
CBI					
[_]	Process type Bonding Electrical Components				

Process Stream ID Code	Process Stream Description	Physical State	Stream Flow (kg/yr)
7A	Put uralite 304 Into mixing cup	<u> </u>	38.48
7.B	Put PtB Uralite 3124 Into Mixing Cap	OL	8.48
7c	Pat Sioz into mixing Cap	<u> </u>	4.7
70	Place Cupinto Vacuum Chamber	<u> </u>	50.1
7E	Transfer Slurry into Syringe	<u> </u>	50.1
<u>7F</u>	Apply slurry to components	<u> </u>	49.1
76_	Place Components under Had	50	48.1
<u> 7H</u>	Place Components in Even	<u>SO</u>	48.1

 $^{^{1}\}text{Use}$ the following codes to designate the physical state for each process stream:

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

[[]X] Mark (X) this box if you attach a continuation sheet.

7.06 <u>CBI</u>	If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. (Refer to the						
[_]	Process typ	e Bondine	Electoic	al Compon	ents		
	a.	b.	J c.	d.	e.		
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)		
	<u> 7A,</u>	Free Monomeric TDI	5-15%				
	~ .	Polyester Polyol	85-95%				
	<u>/B</u>	Aromatic Mercury (II)	15%	· · · · · · · · · · · · · · · · · · ·			
	` 	Alkyl Ester	>95%				
	/C_	SiO_2	100%				
					· · · · · · · · · · · · · · · · · · ·		
	7D	Monomeric TOI	10.6%				
	SO 7/	Polyester Polyol	57.6%				
	, 17, 16	Aromatic Mercury (I)	1.1%				
_	1,7I,7m	AIKYI ESTER	20.7%				
7	<u>n</u>	Si 02	1072				
7.06	continued b	elow					
	Po Ar	lyEster Polyol comatic Mercury(II)	64,4%	7 J, K un	KNOWN		
<u> </u>	Mark (Y) +h	is box if you attach a co	ontinuation she	et.			
r1	Hark (A) III	13 DON II YOU accacii a cc	mernuacion sne				

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

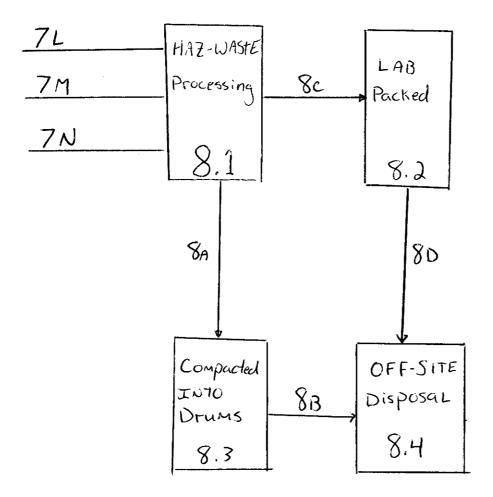
Additive Package Number		Components of Additive Package			Concentrations (% or ppm)
1		N/A			N/A
2					
3					
4					
5					
² Use the followi	ng codes to	designate how	the conce	entration	was determined:
A = Analytical E = Engineering		alculation			
³ Use the followi			the conce	entration	was measured:
V = Volume W = Weight					
ark (X) this box	if you atta	ch a continuat	ion sheet		

PART A RESIDUAL TREATMENT PROCESS DESCRIPTION

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.

CBI

[] Process type Bonding Electrical Components



[] Mark (X) this box if you attach a continuation sheet.

DART	R	RESTDUAL.	CENERATION	ΔND	CHARACTERIZATION
LWVI	D	VESTDONE	GENERALION	MND	CHARACIERIZATION

8.05 CBI	diagram process	(s). If a r type, photo	esidual tre copy this q	am identified i atment block fl uestion and com ons for further	ow diagram is plete it sepa	provided for rately for each	more than one ch process
		type		ding Electrice	<u>-</u>	· ·	,
_	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ⁴ ,5,6	Other Expected Compounds	Estimated Concen- trations (% or ppm)
	7L	T	OL	Free Monumeric TOT	11.4%		
				Polyester Polyor AROMATIC Mercury(1) AIKYL Ester	64.4% 1.2% 23%		
	7M,/N	<u> </u>	<u>SO</u>	Alonomeric TOI	10.6%	5102	16%
	SASB.	<u> </u>	₽ OL	Polyester Polyol ARomatic Messaryi AIKYL ESTER Same as 7	<u> 10 %</u>		
	SCSD _	<u> </u>	50	Same as	76		
 8.05	continue	ed below			 5-ω		
[_]	Mark (X)	this box if	you attach	a continuation	sheet.		

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

	.0		con		

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations(% or ppm)
	1	~ /A	N/A
	2		
	3		
	4		
	5		
	⁴ Use the following codes A = Analytical result E = Engineering judgemen		n was determined:
8.05	continued below		
[_]	Mark (X) this box if you	attach a continuation sheet.	
		56	

8.05 (continued)

 $^{5}\mbox{Use}$ the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

<u>Code</u>	<u>Method</u>	Detection Limit (± ug/l)
1	\mathcal{N}/A	
2		
_3		
_4	<u> </u>	
_5		
_6		

[_] Mark (X) this box if you attach a continuation sheet.

8.06	diagram process	erize each pi (s). If a re type, photoc (Refer to the	esidual trea	atment block sestion and c	flow diag	gram is pro it separate	vided for mo ly for each	re than one
<u>CBI</u>			_		4		,	
[_]	Process	type	··· <u>Bon</u>	ding Elec	trical	(cmple:	ients	
	a.	b.	c.	d.	•	e.	f. Costs for	g.
	Stream ID Code	Waste Description Code	Management Method Code ²	Residual Quantities (kg/yr)	of Res	agement idual (%) Off-Site	Off-Site Management (per kg)	Changes in Management Methods
	<u>7L</u>		<u>7</u> \$_	1.55		100	34 1/Kg	
	7N		<u>75</u>		<u> </u>	<u> </u>	. 34 1/kg	
	<u>7м,</u>		75		٢)	100	.34 18/Kg	
	8C,50		75	<u> </u>	<u> </u>	100	.34 Kg	
	<u> 5A,SB</u>					<u> </u>	.34 */kg	
		e codes provi e codes provi						
[_]	Mark (X) this box if	you attach	a continuat	ion sheet	t.		

8.22 CBI	(by capacity)	incinerator	s that are us	design parameters for each of the three largest are used on-site to burn the residuals identified in treatment block flow diagram(s).								
[_]	your process	Comb Ch	oustion namber name (°C)	Loca Temp	ation of perature pnitor	Resid In Co	Residence Time In Combustion Chamber (seconds)					
	Incinerator	Primary	Secondary	Primary	Secondary	Primary	Secondar					
	1		***		·		-					
	2											
	3											
			of Solid Wast ropriate resp		ıs been submit	ted in lieu	of respons					
	Yes		• • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • •						
	No	• • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • •						
<u>CBI</u>	Incinerator	ck flow diag	Air Po Control	llution Device ¹ - NONE USED		Types Emission Avail	s Data able					
	2			1	<u>. N./s</u>	4 - NONE	CISED					
	3		41	 		1						
	Indicate if Office of Solid Waste survey has been submitted in lieu of response by circling the appropriate response.											
	Yes 1											
	No											
	¹ Use the follo											
	S = Scrubber E = Electrost O = Other (sp	atic precipi	itator		hesis)							
[_]	Mark (X) this	box if you a	attach a cont	inuation sh	eet.							

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

9.01	Mark (X) the appropriate column to indicate whether your company maintains records on
	the following data elements for hourly and salaried workers. Specify for each data
<u>CBI</u>	element the year in which you began maintaining records and the number of years the records for that data element are maintained. (Refer to the instructions for further explanation and an example.)
[_]	Data are Maintained for: Year in Which Number of

Data Element	Hourly Workers	intained for Salaried Workers	Year in Which Data Collection Began	Number of Years Records Are Maintained
Date of hire	X	χ	1967	100 415
Age at hire	X	<u> </u>	1967	102 405
Work history of individual before employment at your facility	xx	x	1967	100415
Sex	X	X	1967	100 455
Race	<u> </u>	X	1967	10048
Job titles	X	<u> </u>	1967	100955
Start date for each job title	x	<u>x</u>	1967	100 455
End date for each job title	e <u>X</u>	X	1967	100 ys
Work area industrial hygier monitoring data	ne <u>χ</u>	χ	1967	100455
Personal employee monitorin data	ng 	•		
Employee medical history	χ	<u> </u>	1967	100 400
Employee smoking history	,			J
Accident history	X	<u>x</u>	1967	100 40
Retirement date	<u>X</u>	<u> </u>	1967	100 yes
Termination date	X	<u> </u>	11967	100 455
Vital status of retirees				
Cause of death data				

[_]	Mark (X)	this box	if you	attach	a	continuation	sheet.

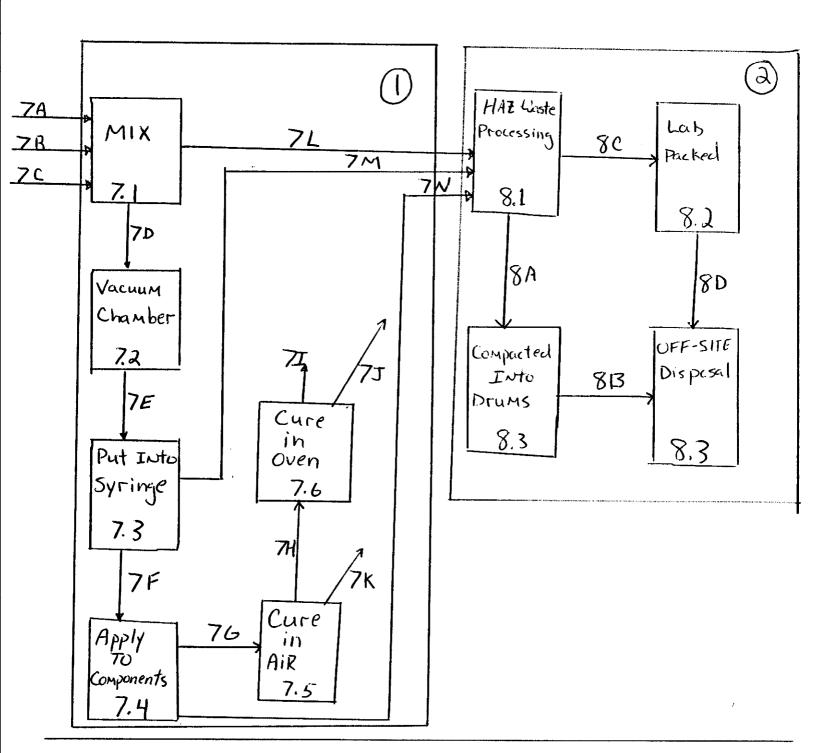
in which you engage.				
a.	b.	c.	d.	е.
Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Ho
Manufacture of the listed substance	Enclosed	-	***************************************	
listed substance	Controlled Release			
	0pen		 	
On-site use as	Enclosed			
reactant	Controlled Release			
	0pen			
On-site use as	Enclosed			
nonreactant	Controlled Release			
	0pen			
On-site preparation	Enclosed			
of products	Controlled Release			
	0pen	5.77 [*]	12	267.
* based on	15% CONC. OF TOI	in 38.45 K	's of Ura	alite 31

encompasses workers wh listed substance.	job title for each labor category at your facility that o may potentially come in contact with or be exposed to the
<u>CBI</u>	
[_]	
Labor Category	Descriptive Job Title
A	Stockkeeper
В	Electrical + Electronic Assembler
С	Electrical + Electronic Mechanic
D	Supervisor
E	
F	
G	
Н	
I	
	······································
J	
l Mark (X) this box if vo	ou attach a continuation sheet.

9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI

[] Process type



[] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	Bonding Electrical Components
	Work Area ID	Description of Work Areas and Worker Activities
	1	Large well centilated Rooms (schaering and booking ca
	2	Outside, (1 worker, Compacts that Haz-waste Manager
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
[]	Mark (X) this box if y	ou attach a continuation sheet.

Process	type		Bonding E	lectric	<u>. (Co</u>	mpenente	Ŝ
Process type Bonding Electrical Compenents Work area							
Labo Catego		Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	re ect	Physical State of Listed ubstance ¹	Average Length of Exposure Per Day ²	Number o Days per Year Exposed
<u>B</u>		5	Inhabition, Die	et skin ladet	OL	B	24
_ (5	t y			<u> </u>	24
D			11			Α	24
				····			
GC = GU = SO = 2 Use th A = 15 B = Gr ex C = Gr	int of Gas (c temper Gas (u temper includ Solid e foll minut eater ceedin eater	exposure: ondensible a ature and pr ncondensible ature and pr es fumes, va	essure) at ambient essure; pors, etc.) to designate av tes, but not	SY = S AL = A OL = O IL = I (9) erage lenger E = Green	ludge or siqueous liqueous lique liqueous liqueo	lurry uid uid liquid ases, e.g., 10% toluene) osure per day: 2 hours, but hours 4 hours, but	not

9.07	Weighted Average (egory represented in question 9.06 TWA) exposure levels and the 15-min estion and complete it separately for	nute peak exposure levels.
<u>CBI</u>			
[_]	Process type	Bonding Electrica	1 Components
	Work area	·· Bonding Electrica	① ′
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
	•	UNKNOWN	
			

		copoda			200, comp		llowing tab
Sample/Test		Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Recor
Personal brea	athing	NA	N. 4	NA)	<u>vd</u>	NA	N.S
General work (air)	area	: : : :			With the second of the second	The multiple of play is a play	AND THE RESERVE OF THE PERSON
Wipe samples		.:		-		**************************************	·
Adhesive pate	ches	¥	<u> </u>				· ———
Blood samples	S						
Urine samples	S						
Respiratory s	samples						
Allergy tests	S						
Other (specif	Ey)						
Other (specif	Ey)						
Other (specif	fy)						
¹ Use the foll				takes the	monitorin	g samples:	
A = Plant ir B = Insuranc C = OSHA cor	ce carrie Isultant	r	st				

_]	Sample Type	<u>N/13</u>	mpling and Analyt	ical Methodolo	ogy			
10 ·	If you conduct person specify the following	nal and/or ambient g information for e	air monitoring fo ach equipment typ	r the listed s e used.	substance,			
-}	Equipment Type ¹	Detection Limit ²	Manufacturer	Averaging Time (hr)	Model Numb			
	NP	NB	NA	<u> </u>	<u> </u>			
	1 Una Aba (all anima)							
	<pre>Use the following co A = Passive dosimete B = Detector tube C = Charcoal filtrat D = Other (specify)</pre>	er	ersonal air monito	oring equipmen	t types:			
	Use the following codes to designate ambient air monitoring equipment types:							
	<pre>E = Stationary monitors located within work area F = Stationary monitors located within facility G = Stationary monitors located at plant boundary H = Mobile monitoring equipment (specify) I = Other (specify)</pre>							
	Use the following codes to designate detection limit units: A = ppm B = Fibers/cubic centimeter (f/cc) C = Micrograms/cubic meter (\(\mu/m^3\))							

Test D	escription	(weel	Frequency	arly, etc
	NA		NA	
				, , , , , , , , , , , , , , , , , , ,

9.12	Describe the engineering contr to the listed substance. Phot process type and work area.				
<u>CBI</u>					,
[_]	Process type	Bouding	Electrical	Compone	11/5
	Work area				
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	У	1954	JV	
	General dilution	<u> </u>	1954	N	
	Other (specify)				
	Vessel emission controls				
	Mechanical loading or packaging equipment				

 $[\overline{X}]$ Mark (X) this box if you attach a continuation sheet.

Other (specify)

13 3 <u>1</u>	Describe all equipment or process modifications you have m prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modif the percentage reduction in exposure that resulted. Photo complete it separately for each process type and work area	ion of worker exposure ication described, state copy this question and
_]	Process type Bending Electrical Work area	Components
	Work area	Ć
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%
	NA	

FIVE AND SAFETY EQUIPMENT		
in order to reduce or elimina copy this question and complete	te their exposure to the listed e it separately for each process typ	
Bendine, Elect-	ical Components	_
······	<u>O</u>	
Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves Other (specify)	Wear or Use (Y/N) Y N N N	
	Equipment Types Respirators Safety goggles/glasses Face shields Coveralls Bib aprons Chemical-resistant gloves	wear or Equipment Types Safety goggles/glasses Face shields Coveralls Bib aprons Chemical—resistant gloves Property to the listed process type Wear or Use (Y/N) N Chemical—resistant gloves Very converse to the listed process type Wear or Use (Y/N) N Comparison to reach process type Wear or Use (Y/N) N Comparison to the listed process type Very converse type Very convers

9.15	process respira tested,	cers use respirates type, the work ators used, the are and the type are it separately	areas where to overage usage, nd frequency o	the respirat , whether or of the fit t	ors are us not the r	ed, the type espirators w	of ere fit
<u>CBI</u>							
[_]	Process	s type	Bond	ing Elec	ctrical	COMPONE	nts
	Work Area	Respir Typ	ator	Average Usage	Fit		Frequency of Fit Tests (per year)
		NORTH 7700 HA		E	<u> </u>	QL	
	<u>Q</u>	Full Face	organic Organic		<u> </u>	QL	
		cartridge					
	$A = Da$ $B = We$ $C = Mo$ $D = On$ $E = Ot$ $^{2}Use th$ $QL = Q$	ekly	As Needec	l		t :	
[_]	Mark (X)) this box if you	ı attach a coı	ntinuation s	heet.		

	E WORK PRACTICES						
9.19 CBI	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed sureas with warning ide worker train	ubstance (e.g. ng signs, insu ning programs	., restrict en ure worker de , etc.). Pho	ntrance only to tection and tocopy this		
[_]	Process type B	endine E	lectrica	1 Compor	nents		
	Process type <u>B</u> Work area		• • • • • • • • • • • • • • • • • • • •				
	ENTRANCE ONLY for Aut	thorized Wort	iers Safet	v Geat is i	o wouses and		
	To be worn by Ma	pacement li	stad Sulve	tance sta	red in		
	Metal cabinets.		3100 3003	TOTAL STE			
	TO THE CONTROL OF THE						
20	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Bereding Electrical Compensation						
	Work area	• • • • • • • • • • • • • • •					
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day		
	Sweeping		<u> </u>				
	Vacuuming						
	Water flushing of floors		X				
	Other (specify)						
[天]	Mark (X) this box if you at						

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?					
	Routine exposure					
	Yes 1					
	No 2					
	Emergency exposure					
	Yes 1					
	No 2					
	If yes, where are copies of the plan maintained?					
	Routine exposure:					
	Emergency exposure:					
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.					
	Yes 1					
	No 2					
	If yes, where are copies of the plan maintained? A Plan is being Developed					
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.					
	Yes 1					
	No 2					
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.					
	Plant safety specialist 1					
	Insurance carrier 2					
	OSHA consultant 3					
	Other (specify) 4					
[_]	Mark (X) this box if you attach a continuation sheet.					

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area 2
	Residential area
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
_	Within 1 mile of a navigable waterway
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10

	Specify the exact location of your is located) in terms of latitude a (UTM) coordinates.	and longitude or Un	iversal Transver	e process unit se Mercader
	Latitude	••••••	<u> 28 · 3</u>	1,12
	Longitude	•••••	80.4	8,26
	UTM coordinates Zone	, North	ning, Ea	asting
10.03	If you monitor meteorological cond the following information.	litions in the vicin	nity of your fac	ility, provide
	Average annual precipitation	• • • • • • • • • • • • • • • • • • • •		inches/veau
	Predominant wind direction			
10.04	Indicate the depth to groundwater	helow your facility	7	
	Depth to groundwater	•		
	bepth to groundwater	• • • • • • • • • • • • • • • • • • • •		meters
10.05 CBI	For each on-site activity listed, listed substance to the environmen Y, N, and NA.)	indicate (Y/N/NA) a t. (Refer to the i	all routine releans	ases of the a definition of
,,	listed substance to the environmen Y, N, and NA.)	t. (Refer to the i	nstructions for rironmental Relea	a definition of use
CBI	listed substance to the environmen Y, N, and NA.) On-Site Activity	t. (Refer to the i Env	nstructions for rironmental Relea Water	a definition of use Land
CBI	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing	Env	rironmental Relea	a definition of use Land
CBI	listed substance to the environmen Y, N, and NA.) On-Site Activity	t. (Refer to the i Env	nstructions for rironmental Relea Water	a definition of use Land
CBI	listed substance to the environmen Y, N, and NA.) On-Site Activity Manufacturing Importing	Env	rironmental Relea Water N	a definition of Land N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing	Env Air NA V	vironmental Release Water N	a definition of Land V N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used	Env Air NA V	vironmental Release Water N	a definition of Land V N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage	Env Air NA V NA Y Y	vironmental Release Water N	a definition of Land V N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env Air NA V NA Y Y Y	rironmental Release Water N N N N N N N N N N N N N	a definition of Land V N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env Air NA V NA Y Y Y	rironmental Release Water N N N N N N N N N N N N N	a definition of Land V N
CBI	listed substance to the environment Y, N, and NA.) On-Site Activity Manufacturing Importing Processing Otherwise used Product or residual storage Disposal	Env Air NA V NA Y Y Y	rironmental Release Water N N N N N N N N N N N N N	a definition of Land V N

10.06 CBI	Provide the following information for the liste of precision for each item. (Refer to the inst an example.)		
[_]	Quantity discharged to the air	kg/yr :	± ;
	Quantity discharged in wastewaters		
	Quantity managed as other waste in on-site treatment, storage, or disposal units		
	Quantity managed as other waste in off-site treatment, storage, or disposal units	3.55 kg/yr	<u>+</u>

10.08 CBI	for each process streat process block or resident and complete it separate	technologies used to minimize release of tham containing the listed substance as idendual treatment block flow diagram(s). Photately for each process type.	tified in your tocopy this question
[_]	Process type	Bonding Electrical Components	
	Stream ID Code	Control Technology	Percent Efficiency
		NA	
	Mark (X) this box if vo	ou attach a continuation sheet.	,

10.09 <u>CBI</u> []	substance in terms residual treatment source. Do not inc	ons Identify each emission point source containing the listed of a Stream ID Code as identified in your process block or block flow diagram(s), and provide a description of each point lude raw material and product storage vents, or fugitive emission pment leaks). Photocopy this question and complete it separately
	Process type Point Source	Bonding Electrical Components
	1D Code 7 K	Curing Cabinet vent to the outside. Minute quantities if any are
		Minuté quantities if any are released.
		Curing Oven Vent to the outside Minute quantities of substance if any are released
		any are released

<u>_</u>]	Point Source ID Code	Physical State	Average Emissions (kg/day)	Frequency ² (days/yr)	Duration ³ (min/day)	Average Emission Factor ⁴	Maximum Emission Rate (kg/min)	Maximum Emission Rate Frequency (events/yr)	Max Emi R Dur (min
	_40	KNOU	<u> </u>						
									
								-	
	¹ Use the G = Gas	following; V = Vapor	codes to desi	ignate physica Date; A = Aer	 l state at th osol; 0 = 0th	e point of reer (specify)	lease:		
	_			evel of emissi					
	3Duratio	n of emissi	ion at anv lev	vel of emission	n				

J	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building Width(m)	Ve Ty
	<u>7</u> J	12.5	4	65	11.3	10.7	122	
	<u> 7</u> K	12.5	_, 4	<u>25</u>	11.3	10:7	122	<u>V</u>

							- Add to the transport of the transport	

	1							
			or adjacent					
			or adjacent b					
	H = Hori		odes to desi	ignate vent t	.ype:			
	V = Vert							

10.12 CBI	distribution for each Point Source I	n particulate form, indicate the particle size D Code identified in question 10.09. it separately for each emission point source.
[_]	Point source ID code	<u>NA</u>
	Size Range (microns)	Mass Fraction (% \pm % precision)
	< 1	
	≥ 1 to < 10	
	≥ 10 to < 30	
	≥ 30 to < 50	
	≥ 50 to < 100	
	≥ 100 to < 500	
	≥ 500	
		Total = 100%

10.13	types listed which are expactording to the specified the component. Do this for residual treatment block for not exposed to the listed process, give an overall pexposed to the listed subs	weight percent each process low diagram(s substance.	listed suent of thes type is). Do note this itime per	bstance a e listed dentified ot includ s a batch year tha	nd which substance in your e equipme or inter t the pro	are in se passing process b nt types mittently cess type	rvice through lock or that are operated is
<u>CBI</u>	for each process type.						
[]	Process typeNA					· · · · · · · · · · · · · · · · · · ·	
	Percentage of time per yea type	• • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • • • •	· · · · · · · · <u> </u>	
		Number	of Compos	nents in : d Substan	Service by	y Weight	Percent
		Less	OI LISTE	u Substan	ce III FIO	cess sire	Greater
	Equipment Type Pump seals ¹	than 5%	5-10%	11-25%	<u>26-75%</u>	76-99%	than 99%
	Packed						
	Mechanical						
	Double mechanical ²		-				
	Compressor seals ¹						
	Flanges						
	Valves						
	Gas ³						
	Liquid						
	Pressure relief devices ⁴ (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid						
	Open-ended lines ⁵ (e.g., purge, vent)						
	Gas						
	Liquid						
	¹ List the number of pump ar compressors	d compressor	seals, r	ather tha	n the num	ber of pu	imps or
10.13	continued on next page						

10.13	(continued)			
	² If double mechanical seal greater than the pump stu will detect failure of th with a "B" and/or an "S",	uffing box pressure a ne seal system, the b	ind/or equipped wi	th a sensor (S) that
	³ Conditions existing in th	ne valve during norma	al operation	
	⁴ Report all pressure relie control devices	ef devices in service	e, including those	equipped with
	⁵ Lines closed during norma operations	al operation that wou	ıld be used during	maintenance
10.14 <u>CBI</u> []	Pressure Relief Devices wi pressure relief devices in devices in service are cor enter "None" under column	dentified in 10.13 to a trolled. If a press c.	indicate which p	ressure relief is not controlled,
	a. Number of Pressure Relief Devices	b. Percent Chemical in Vessel ¹	c. Control Device	d. Estimated Control Efficiency ²
	N A			
	¹ Refer to the table in ques heading entitled "Number o Substance" (e.g., <5%, 5-1	f Components in Serv	d the percent rang ice by Weight Perc	ge given under the eent of Listed
	² The EPA assigns a control with rupture discs under n efficiency of 98 percent f conditions	ormal operating cond	itions. The EPA a	ssigns a control
[_]	Mark (X) this box if you at	tach a continuation	sheet.	

CBI	procedures. Photoco type.	,			•	•
[_]	Process type	• • • • • • • • • • • • • • • • • • • •		Benchin	a Electri	cal Comp
		Leak Detection Concentration (ppm or mg/m³) Measured at	-	Frequency of Leak	Repairs Initiated	Repairs Completed
	Equipment Type	Inches from Source	Detection Device		(days after detection)	initiated)
	Pump seals					
	Packed	NA				
	Mechanical					
	Double mechanical					
	Compressor seals					-
	Flanges					
	Valves					
	Gas					
	Liquid .					
	Pressure relief devices (gas or vapor only)					
	Sample connections			· · · · ·		
	Gas					
	Liquid					
	Open-ended lines					
	Gas					
	Liquid					
	¹ Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	nic vapor analyze onitoring	detection de	evice:		

CBI				flow diagram	` ,				Operat-	-				
_]	Vessel Type ¹		Composition of Stored Materials ³		Filling				Volume				Control Efficiency (%)	Basis for Estimat
	F = CIF = NCIF = EFR = P = H =	= Fixed re = Contact = Noncontact = Externa	internal floact internal l floating revessel (incatal	pating roof floating roo	of		MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2	= Mecl = Shoo R = Rim = Liqu = Rim = Wea = Vap	hanical e-mounte mounte uid-mounte ther sh or mounte	shoe, pri ed seconda d, seconda nted resil d shield ield ted resili d secondar	mary ry ient fi	lled seal,	•	s:
	F = CIF = NCIF = EFR = P = U = 3 Indica Other	= Fixed re = Contact = Nonconta = Externa = Pressure = Horizon = Undergre ate weigh	oof internal floact internal act internal l floating re e vessel (inc tal	pating roof floating roo oof dicate presso the listed s	of ure rating	g) . Include	MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2 VMW	= Mecl = Shoo R = Rim = Liqq = Rim = Wea = Vap = Rim = Wea	hanical e-mounte mounte ther sh or mounte ther sh ile org	shoe, pri ed seconda d, seconda nted resil d shield ield ted resili d secondar ield anic conte	mary ry ient fi ent fil y ent in p	lled seal, led seal,	, primary primary	s:

		D	ate	Time	Date	Time
	Release	St	arted	(am/pm)	Stopped	(am/pm)
	1		lone			
	2					
	3					
	4					
	5		·		····	
	_					
10.24	6 Specify t		ditions at the	time of each		Precipitation
10.24						Precipitation
10.24	Specify t	he weather cond Wind Speed (km/hr)		Humidity (%)	release. Temperature (°C)	Precipitation (Y/N)
10.24	Specify t	Wind Speed	Wind	Humidity	Temperature	
10.24	Specify t Release 1 2	Wind Speed	Wind	Humidity	Temperature	
10.24	Specify t Release 1 2 3	Wind Speed	Wind	Humidity	Temperature	Precipitation (Y/N)
10.24	Specify to Release 1 2 3 4	Wind Speed	Wind	Humidity	Temperature	
10.24	Specify t Release 1 2 3	Wind Speed	Wind	Humidity	Temperature	

[_]	Mark (X)	this	box if you	attach a	continuation	sheet.

APPENDIX I: List of Continuation Sheets

Attach continuation sheets for sections of this form and optional information after this page. In column 1, clearly identify the continuation sheet by listing the question number to which it relates. In column 2, enter the inclusive page numbers of the continuation sheet for each question number.

		Continuation Sheet
	Question Number (1)	Page Numbers (2)
	7.05	46
	9.06	93
	9.07	94
	9.12	98
	9.13	99
MIN	9.14	
	9.19	
	9.20	105
		•
		

7.05	process block	process stream identified in your pr flow diagram is provided for more the complete it separately for each proce	an one process type	iagram(s). If a e, photocopy thi
<u>CBI</u>				
[_]	Process type .	Bonding Electrical	Components	
	Process	•		
	Stream ID Code	Process Stream _Description	Physical State ¹	Stream Flow (kg/yr)
	7 <i>I</i>	Final Product : Electronic Sub-Assembly	So	48.1
	7	oven Vent to outside	Gu	~0
	<u> 7K</u>	Hood Vent to Outside	GU	~0
	71	Uralite Cans, Part A,13	OL	1.55
		used Mixing Cups	<u> </u>	/
		Used Syringes	<u> </u>	
	GC = Gas (congress of GU = Gas (uncongress of GU = Gas (uncongress of GU = Gundan of G	liquid	pressure) d pressure)	

Process type		Bending E	lectrical Co	ompenents	
Work area		······		(2)	
Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dire skin contac	ect Liste	of Length of Exposure	Number (Days per Year Exposed
<u>A</u>		Inhalation	OL	A	24
			<u>-</u>		
the point of the p	exposure: condensible acture and presented and presented and presented and presented and presented acture and presented actures and presented actures.	t ambient essure) at ambient essure; cors, etc.) to designate ave	SY = Sludge AL = Aqueous OL = Organic IL = Immisci (specif 90% wat erage length of D = Greater exceedin E = Greater exceedin	s liquid : liquid	r: not

9.07 CBI	Weighted Average (egory represented in question 9.06, TWA) exposure levels and the 15-min stion and complete it separately fo	nute peak exposure levels.
[_]	Process type	Bondine Flodricel	Compenents
	Work area		
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
		_ Unition N	
		· · · · · · · · · · · · · · · · · · ·	
	<u> </u>		1 min or 10 min of 10 min or 10 min
	·		

9.12 CBI	Describe the engineering contr to the listed substance. Phot process type and work area.	ols that yo	u use to reduce or question and complo	eliminate wor ete it separa	rker exposure tely for each
<u> </u>	Process type	Bondin	a Electrical	COMNENIE	1145
	Work area		.)	· <u>(2)</u> · _	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust			·:	
	General dilution _			A STATE OF THE STA	
	Other (specify)				
	<u>Cutside Area</u>	<u> </u>			
	Vessel emission controls				
	Mechanical loading or packaging equipment	<u> </u>	1986	<i>N</i>	
	Other (specify)				
	and the second s				
	•				

9.13 CBI	Describe all equipment or process modifications you have may prior to the reporting year that have resulted in a reduct the listed substance. For each equipment or process modification the percentage reduction in exposure that resulted. Photocomplete it separately for each process type and work area.	ion of worker exposure to ication described, state copy this question and
[_]	Process type Borneling Electrical Co. Work area	nonente
	Work area	<u>(2)</u>
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	NA	
	•	

9.14) CBI	in each work area	sonal protective and safety equal in order to reduce or elimina ocopy this question and complet	te their exposure	to the listed
[_]	Process type	Bonding Electer	cal Component	15
	Work area	······································	····· _	<u>(3)</u>
			Wear or	•
		Equipment Types	Use (Y/N)	
		Respirators	<u></u>	
		Safety goggles/glasses	<u> </u>	
1.		Face shields		
		Coveralls	<u> </u>	
		Bib aprons	\mathcal{N}	
		Chemical-resistant gloves	<u>Y</u>	
		Other (specify)		
		4		

9.19 <u>CBI</u>	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provoustion and complete it s	to the listed su areas with warnin dide worker train	bstance (e.g. g signs, insuing programs,	, restrict er re worker det etc.). Phot	ntrance only to tection and tocopy this		
[_]	Dunner turn	a in sta	1 C	and market			
	Process type	Chaus & Co	(Illica)	Sometits			
	work area		• • • • • • • • • •				
	restrict entrance or	aly to author	ized Wor	Kers, We	aring		
	Safety gear is encor	uraged and en	forced by	Managem	ent.		
	Safety gear is encome Outside area pro	vides venti	lation.	V			
9.20	Indicate (X) how often you perform each housekeeping task used to clean up routine leaks or spills of the listed substance. Photocopy this question and complete it separately for each process type and work area. Process type Bonding Electrical Components Work area						
9.20	leaks or spills of the lis separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question an			
9.20	leaks or spills of the lis separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question an			
9. 20	leaks or spills of the lis separately for each proces	sted substance. ss type and work	Photocopy thi area.	s question an			
9. 20	leaks or spills of the lisseparately for each process Process type Bo.1 Work area	sted substance. ss type and work cling Electric Less Than	Photocopy thi area. Composition 1-2 Times	s question and seconds	More Than 4		
9.20	leaks or spills of the lisseparately for each process Process type <u>Bond</u> Work area Housekeeping Tasks	sted substance. ss type and work cling Electric Less Than	Photocopy thi area. Composition 1-2 Times	s question and seconds	More Than 4		
9.20	leaks or spills of the lisseparately for each process Process type Bo., Work area	sted substance. ss type and work cling Electric Less Than	Photocopy thi area. Composition 1-2 Times	s question and seconds	More Than 4		
9.20	leaks or spills of the lisseparately for each process Process type Bo., Work area Housekeeping Tasks Sweeping Vacuuming	sted substance. ss type and work cling Electric Less Than	Photocopy thi area. Composition 1-2 Times	s question and seconds	More Than 4		
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